

Transportation Research Board Asset Management Peer Exchange *Asset Management Guide and Implementation – Status Report*

presented to

Transportation Research Board

presented by

Lance A. Neumann

Cambridge Systematics, Inc.

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Transportation leadership you can trust.

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Agenda

- **Background**
- **Asset Management Guide**
- **NHI Training Course**
- **State Implementation Activities**
- **Asset Management and Performance Management**

Background

- **FHWA, AASHTO, and TRB working to develop and advance asset management**
- **Asset management is**
 - **Set of business principles for effective resource allocation decisions**
 - **Comprehensive approach to managing resources and the transportation system**
- **Initial focus was infrastructure preservation, but now concepts have been extended to all functions and full life cycle of decision-making**

Asset Management Guide

- Completed in November 2002
- Defines Asset Management
- Identifies key business principals
- Provides guidance on “good asset management practice” in key functional areas
- Self assessment tool
- Selected examples

What is Asset Management?

**A strategic approach to managing
transportation infrastructure**

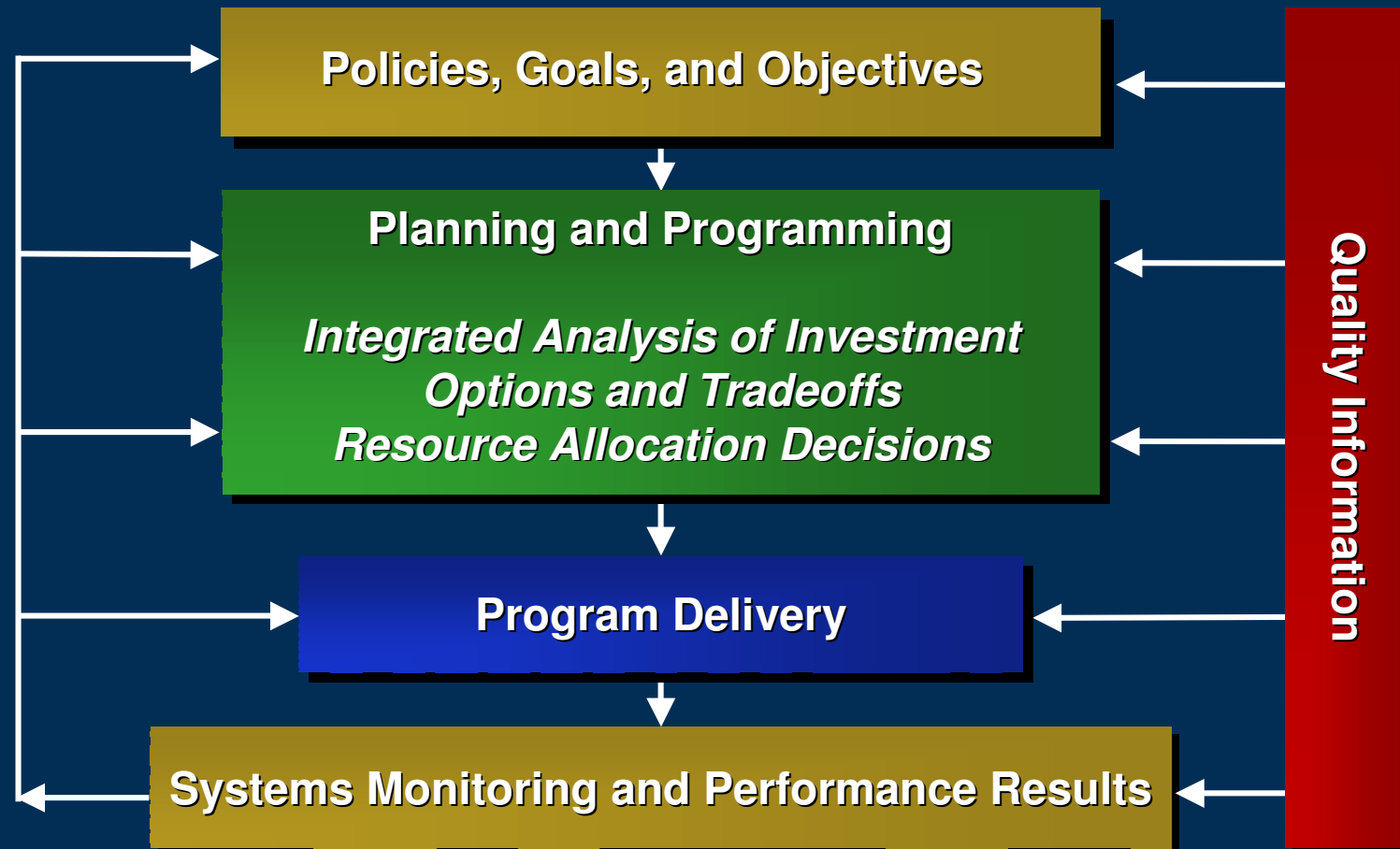
Specifically...

**Getting the Best Results/Performance for the Preservation,
Improvement, and Operation of Infrastructure Assets Given the
Resources Available**

Asset Management Principles

- **Policy-Driven**
- **Performance-Based**
- **Analysis of Options and Tradeoffs**
- **Decisions Based on Quality Information**
- **Monitoring to Provide Clear Accountability and Feedback**

Resource Allocation and Utilization Process



NHI Asset Management Training Course

- NHI offers a training course based on the AASHTO Transportation Asset Management Guide
- Course has been given five times since Jan 2004
 - Utah DOT
 - Rhode Island DOT
 - NH, ME, and VT DOTs
 - Michigan AM Council
 - Oregon DOT
 - *CT DOT (scheduled for 10/05/04)*
- For agencies interested in exploring the basics of asset management, the self-assessment and trade-off exercises have been particularly popular

NHI Asset Management Training Course (continued)

- **Other agencies understand asset management concepts and are working on implementation. These agencies are looking for more detailed “how to” guidance and examples of best practice**
- **Current course designed for state DOT’s but municipal, county, and regional agencies also are interested in training**
- **Course revisions are being considered to keep up with the evolving state of practice. These revisions could**
 - **Address the growing need for more detailed examples**
 - **Respond to the emerging local market**

State Implementation Experience

Common Themes

- **Importance/relevance of asset management**
 - Fact-based decision-making
 - Accountability
 - Performance results
- **Data requirements/quality**
- **Tools for forecasting results**
- **Challenge of tradeoff analysis**
- **Performance measures as key element**

State Implementation Experience

Selected Lessons Learned

- Incremental implementation – it's not where you start that's important
- Asset management requires a shift in culture
 - “Key is ethic of treating issue as **network** problem not a series of **projects**”
 - “Focus on investments in assets and the **network** reflecting **customer** view”

State Implementation Experience

Selected Lessons Learned (continued)

- **Data and basic tool infrastructure key to long-term success**
- **IT needs to be viewed as strategic resource, aligned with business process needs**
- **Two basic approaches to advancing asset management**
 - **Building basic data, tool, and IT infrastructure**
 - **Focusing on key policy issues and resource allocation tradeoffs using existing data/tools**

Asset Management/Performance Management

- **Tremendous synergy between advancing asset management and performance measurement**
- **Both areas moving rapidly from theory/concepts to implementation and practical management tools/processes**
- **Themes from recent performance measures conference**
 - **Decision support tool to help allocate resources and make the case for more resources**
 - **Need to connect program development and delivery**
 - **Need more discipline to monitor actual impacts on system performance**
 - **Internal and external organizational implications**
 - **Data and tool issues**